



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

FEE

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS  
REGISTRATION DIVISION (7505P)

DP BARCODE No.: D411316; REG. No. /File Symbol No. 70506-GNL Decision No. 477113  
Action Code: R310; Food Use: No; PRODUCT NAME: Bifenture 17 PC Code(s): 128825

DATE: August 8, 2013

SUBJECT: Product Chemistry Review of Bifenture 17

FROM: Akiva Abramovitch, Ph.D.  
Technical Review Branch / RD (7505P)

THROUGH: Shyam Mathur, Ph.D.  
Product Chemistry Team Leader  
Technical Review Branch/RD (7505P)

TO: BeWanda Alexander/Richard Gebken, PM 10  
Insecticide Branch/ RD (7505C)

Company Name: United Phosphorous  
Formulation Type: Liquid

INTRODUCTION:

The registrant is submitting an application for registration of the new end use product Bifenthrin 17. The registrant claims that the subject product is substantially similar to product Caprure LFR, EPA Reg. No. 279-3302 but submitted their product chemistry data in MRID # 490938-01 to -03 to support the registration of this product. Also submitted a proposed Basic CSF dated 3/29/2013 and the product label listing bifenthrin at a nominal concentration of 17.15%. TRB has been asked to determine the acceptability of the aforementioned product chemistry data and the CSF dated March 29, 2013.

SUMMARY OF FINDINGS:

1. The subject product Bifenture 17 contains (17.15%) of active Ingredient Bifenthrin.
2. Has the registrant claimed substantial similarity to a registered product?

[X] Yes; [ ] [ ] NO; if yes give the registration number of the cited product.

EPA Reg. No. 279-3302

3. All of the source materials of the active ingredient are derived from registered sources-  
[X] Yes [ ] No

4. All inert ingredients have been screened by IIAB and found to be approved for the proposed uses.

Non Food



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5. Confidential Statement of Formula(s):

[X] Proposed Basic and dated March 29, 2013

Proposed Alternate: [None]

Proposed Alternate comply with 40CFR§152.43: [NA] Yes; [ ] No [ ]

6. a. Product label, Ingredient statement: Nominal concentration of AI listed on CSF(s) concurs with product label (PR Notice 91-2)

[X] Yes; [ ] No; if not, explain below:

Is the sub statement in compliance with PR Notice 97-6 (inert ingredient vs. other ingredient?)

[X] Yes; [ ] No; if not, explain below:

Metallic equivalent: [X] NA  
Isomeric ratios Yes [X] 97% cis and 3% trans  
Soluble Arsenic [X] NA  
Acid Equivalent [X] NA

- b. Health related sub statements: Product contains?

Petroleum distillate at > 10%: [ ] Yes [X] No [ ] NA  
Methanol at > 4%: [ ] Yes [X] No [ ] NA  
Sodium nitrate/Sodium nitrite: [ ] Yes [X] No [ ] NA

- c. Physical chemical hazard statement: Product label requires a statement per 40 CFR §156.78 for: flammability, explosive potential or electric insulator breakdown?  
[ ] Yes No [X]

Is the sub statement in compliance with PR Notice 98-6 (Total Release Fogger)?

[ ] Yes, [ ] No; [X] NA; if not, explain below:

- d. Label requires an additional Storage and Disposal statement: [ ] Yes [X] No; if yes Explain below:



7. Group A: Product Chemistry Data

TRB's determination of the acceptability of the data for the proposed product is listed in the tables below.

Guideline No.	Study Title		Data submitted		TRB's Assessment of Data	MRID Nos.
			Yes	No		
830.1550	Product Identity & Composition		X		A	490938-01
830.1600	Description of materials used to produce the product		X		A	490938-01
830.1650	Description of formulation process		X		A	490938-01
830.1670	Discussion on the formation of impurities		X		A	490938-01
830.1700	Preliminary analysis			NA		490938-01
830.1750	Certified limits (158.350)	Standard certified Limits	X		A	
		Proposed Limits				
		Justification for wider limits				
830.1800	Enforcement analytical method		X		A (HPLC method validated)	490938-03

8. Group B:

Guideline No.	Study Title	Value or Qualitative Description	TRB's Assessment of Data	MRID Nos.
830.6303	Physical State	Off white viscous liquid	A	490938-02
830.6315	Flammability	None	W	490938-02
830.6316	Explosibility	Not considered to be potentially explosive	W	490938-02
830.7000	pH	8.37 1% solution. at 23.6 C	A	490938-02
830.7300	Density (specific gravity)	8.45 lbs/gal 1.012 gm/ml at 20 C	A	490938-02

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver request,  
 NA = Not applicable, I = In progress, U = Upgradeable.



**CONCLUSIONS:**

TRB has reviewed the proposed basic CSF dated March 29, 2013 and product chemistry data corresponding to guideline 830 series, group A & group B for the proposed subject product and concluded:

1. The CSF dated March 29, 2013 and data corresponding to 830 series group A Guideline 830.1550 (product identity and composition) are acceptable.
2. Data submitted corresponding to 830 series group B product chemistry are acceptable.
3. The applicant is required to submit one-year storage stability data (guideline 830.6317) and corrosion characteristics (guideline 830.6320) studies for 0, 3, 6, 9, and 12 month intervals.
4. The subject product is substantially similar to EPA Reg. # 279-3302 from product chemistry point of view. The two products use substantial quantities of identical solvents and have both non flammable and have substantially similar densities.
5. The proposed label was screened as it pertains to the product chemistry requirements. The final review of the proposed label and uses are the purview of the PM team.
- 6 This product is incompatible with strong oxidizing agents producing heat when exposed to potassium permanganate.. Therefore, "Do not mix or allow in contact with oxidizing agents since hazardous chemical reaction may occur" should be added to the label.